	Exhibit Name:	Premium Calculation		
	Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2011
	Record Name:	Acreage	Version:	DRAFT
	Record Code:	P11	Release Date:	9/30/2010

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Section 1: Liability Calculation						
Premium Guarantee Per Acre Amount = Approved Yield * Coverage Level Percent	Premium Guarantee Per Acre Amount	Internal		999999999.99	If Unit of Measure equals Pounds "LBS", then round to whole number. If Unit of Measure equals Tons "TONS", then round to 2 decimals. Otherwise, round to 1 decimal.	
	Approved Yield	P11	47	99999999.99	None	
	Coverage Level Percent	P14	33	9.9999	None	
When Guarantee Adjustment Type Code equals Late Planting, "L" OR Prevented Planting, "P": Guarantee Per Acre Amount = Premium Guarantee Per Acre Amount * Guarantee Adjustment Factor	Guarantee Per Acre Amount	Internal		999999999.99	If Unit of Measure equals Pounds "LBS", then round to whole number. If Unit of Measure equals Tons "TONS", then round to 2 decimals. Otherwise, round to 1 decimals.	
	Guarantee Adjustment Factor	P11	75	0.999	None	Edit with the Guarantee Adjustment ICE, "D00068".

Exhibit Name: Premium Calculation				
Exhibit Number: P11-1, Plan 01, 02, 03		**Reinsurance Year:** 2011		
Record Name: Acreage		**Version:** DRAFT		
Record Code: P11		**Release Date:** 9/30/2010		

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Price Election Amount = Projected Price * Price Election Percent	Price Election Amount	Internal		9999.9999	When Commodity Code equals 0015, 0018, 0078, 0116, 0255, 0257; **Or** 0043, 0047, 0049 with Reinsurance Year greater than or equal to "2001"; **Or** 0038, 0075 with Reinsurance Year greater than or equal to "2002"; then round to 4 decimals. Otherwise, round to 2 decimals.	Rounding rules can be validated with ARM, Price Calculation Factor, "A00
	Projected Price	ADM		99999.9999	None	Liability for Yield Protection, "01" allows the producer the opportunity to choose a percentage of the Projected Price. Liability for Revenue Protection, "02", or Revenue Protection with Harvest Price Exclusion, "03", requires the producer to choose 100 percent of the Projected Price. Edit with ADM Price, "00810".
	Price Election Percent	ICE		9.9999	None	Price Election Percent must equal 1.000, when Insurance Plan Code is Revenue Protection, "02", or Revenue Protection with Harvest Price Exclusion, "03". Edit with ICE Price Election Percent, "D00007".
Premium Total Guarantee Amount = Premium Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Premium Total Guarantee Amount	Internal		99999999.99	Round to 2 decimals.	
	Price Election Amount	Internal		9999.9999	None	
	Reported Acreage	P11	52	99999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.

Exhibit Name: Premium Calculation							
Exhibit Number: P11-1, Plan 01, 02, 03				**Reinsurance Year:** 2011			
Record Name: Acreage				**Version:** DRAFT			
Record Code: P11				**Release Date:** 9/30/2010			

Insurance Plan Code	01 Yield Protection		02 Revenue Protection		03 Revenue Protection with Harvest Price Exclusion		
Commodity Code	0011 Wheat 0015 Canola 0018 Rice		0021 Cotton 0041 Corn 0051 Grain Sorghum		0078 Sunflower 0081 Soybeans 0091 Barley		

Calculations		Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Total Guarantee Amount =	Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Total Guarantee Amount	P11	97	99999999.99	Round to 2 decimals.	
		Price Election Amount	Internal		9999.9999	None	
		Reported Acreage	P11	52	999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage.
Premium Liability Amount = Premium Total Guarantee Amount * Insured Share Percent		Premium Liability Amount	Internal		9999999999	Round to whole	
		Insured Share Percent	P11	48	9.9999	None	
Liability Amount = Total Guarantee Amount * Insured Share Percent		Liability Amount	P11	87	9999999999	Round to whole number.	
		Insured Share Percent	P11	48	9.9999	None	
Section 2: Base Premium Rate Calculation							
Current Year Yield Ratio = Rate Yield / Reference Amount		Current Year Yield Ratio	Internal		9.9999	Round to 2	Cup at 0.50 and Cap at 1.50.
		Rate Yield	P15	38	99999999.99	None	
		Reference Yield	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".
Prior Year Yield Ratio = Rate Yield / Prior Year Reference Amount		Prior Year Yield Ratio	Internal		9.9999	Round to 2	Cup at 0.50 and Cap at 1.50.
		Rate Yield	P15	38	99999999.99	None	
		Prior Year Reference Amount	ADM		99999.99	None	Edit with ADM Base Rate, "A01010".
Current Year Rate Multiplier = Current Year Yield Ratio ^ Exponent Value		Current Year Rate Multiplier	Internal		9999.99999999	Round to 8	
		Exponent Value	ADM		S99.999	None	Edit with ADM Base Rate, "A01010".
Prior Year Rate Multiplier = Prior Year Yield Ratio ^ Prior Year Exponent Value		Prior Year Rate Multiplier	Internal		9999.99999999	Round to 8	
		Prior Year Exponent Value	ADM		S99.999	None	Edit with ADM Base Rate, "A01010".

	Exhibit Name:	Premium Calculation		
	Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2011
	Record Name:	Acreage	Version:	DRAFT
	Record Code:	P11	Release Date:	9/30/2010

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

	Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Current Year Base Rate	**When Rate Method Code is Fixed, "F":** = Sub County Rate	Current Year Base Rate	Internal		9999999999.99999999	Round to 8	
		Sub County Rate	ADM		99.9999	None	Edit with ADM Sub County Rate, "A01050".
	When Rate Method Code is Additive, "A": = Sub County Rate + (Current Year Rate Multiplier * Reference Rate + Fixed Rate)	Current Year Rate Multiplier	Internal		9999.99999999	None	
	When Rate Method Code is Multiplicative, "M": = Sub County Rate * (Current Year Rate Multiplier * Reference Rate + Fixed Rate)	Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
	Otherwise: = Current Year Rate Multiplier * Reference Rate + Fixed rate	Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
Prior Year Base Rate	**When Rate Method Code is Fixed, "F":** = Sub County Rate	Prior Year Base Rate	Internal		9999999999.99999999	Round to 8 decimals.	
		Sub County Rate	ADM		99.9999	None	Edit with ADM Sub County Rate, "A01050".
	When Rate Method Code is Additive, "A": = Sub County Rate + (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate)	Prior Year Rate Multiplier	Internal		9999.99999999	None	
	When Rate Method Code is Multiplicative, "M": = Sub County Rate * (Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed Rate)	Prior Year Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
	Otherwise: = Prior Year Rate Multiplier * Prior Year Reference Rate + Prior Year Fixed rate	Prior Year Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".

Exhibit Name: Premium Calculation							
Exhibit Number: P11-1, Plan 01, 02, 03				**Reinsurance Year:** 2011			
Record Name: Acreage				**Version:** DRAFT			
Record Code: P11				**Release Date:** 9/30/2010			

Insurance Plan Code	01 Yield Protection		02 Revenue Protection			03 Revenue Protection with Harvest Price Exclusion	
Commodity Code	0011 Wheat 0015 Canola 0018 Rice		0021 Cotton 0041 Corn 0051 Grain Sorghum			0078 Sunflower 0081 Soybeans 0091 Barley	

	Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Current Year Base Premium Rate =	**When Unit Structure Code is equal to Optional Unit, 'OU' or Basic Unit, "BU":**	Current Year Base Premium Rate	Internal		9999999999.99999999	Round to 8 decimals.	
	=	Rate Differential Factor	ADM		9.999999999	None	Edit with ADM Coverage Level Differential, "A01040".
	Current Year Base Rate * Rate Differential Factor * Unit Residual Factor	Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040".
	When Unit Structure code is Enterprise Unit, 'EU': Current Year Base Rate * Rate Differential Factor * Enterprise Unit Residual Factor	Enterprise Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040".
	When Unit Structure code is Whole Farm Unit, "WU": = Current Year Base Rate * Rate Differential Factor * Whole Farm Unit Residual Factor	Whole Farm Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040".
Prior Year Base Premium Rate =	**When Unit Structure Code is equal to Optional Unit, 'OU' or Basic Unit, "BU":**	Prior Year Base Premium Rate	Internal		9999999999.99999999	Round to 8 decimals.	
	=	Prior Year Rate Differential Factor	ADM		9.999999999	None	Edit with ADM Coverage Level Differential, "A01040".
	Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Unit Residual Factor	Prior Year Unit Residual Factor	ADM		999.999	None	Edit with ADM Coverage Level Differential, "A01040".
	When Unit Structure code is Enterprise Unit, "EU": Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Enterprise Unit Residual Factor	Prior Year Enterprise Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040".
	When Unit Structure code is Whole Farm Unit, 'WU': = Prior Year Base Rate * Prior Year Rate Differential Factor * Prior Year Whole Farm Unit Residual Factor	Prior Year Whole Farm Unit Residual Factor	ADM		9.999	None	Edit with ADM Coverage Level Differential, "A01040".
Base Premium Rate =	MIN (Current Year Base Premium Rate, Prior Year Base Premium Rate * 1.2, .999)	Base Premium Rate	P11	90	9999999999.99999999	Round to 8 decimals.	
Revenue Lookup Rate =	MIN(Current Year Base Rate, Prior Year Base Rate * 1.2, 0.9999)	Revenue Lookup Rate	Internal		9999999999.9999	Round to 4 decimals.	
Base Rate =	MIN(Current Year Base Rate, Prior Year Base Rate * 1.2, 0.999)	Base Rate	Internal		999.99999999	Round to 8 decimals.	

Exhibit Name:	Premium Calculation					
Exhibit Number:	P11-1, Plan 01, 02, 03		**Reinsurance Year:**	2011		
Record Name:	Acreage		**Version:**	DRAFT		
Record Code:	P11		**Release Date:**	9/30/2010		

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

Calculations		**Field Name**	**Record Number**	**d Nu**	**Field Format**	**Field Rounding**	**Rules**
Section 3: Unit Discount Calculation							For all Combo Commodities, if the chosen Unit Structure is Optional Units, the appropriate discount factor should be looked up and applied.
When Commodity Code is NOT EQUAL to Wheat, "0011", Cotton, "0021", Corn, "0041", or Soybeans, "0081".							
Unit Structure Discount Factor	= **When the Unit Structure Code is Optional Unit, "OU":** **1.0**	Unit Structure Discount Factor	Internal		9.99999999	Round to 8 decimals.	
	= **When Unit Structure Code is Basic Unit, "BU":** Basic Unit Discount Factor	Basic Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090".
	= **When the Unit Structure Code is Enterprise Unit, "EU":** Basic Unit Discount Factor * Enterprise Unit Discount Factor	Enterprise Unit Discount Factor	ADM		9.999	None	Edit with ADM Unit Discount, "A01090". Enterprise Units will now mandate that all insured acreage for a commodity will be included in the Enterprise Unit. This includes both fall and spring planted acreage. Enterprise Unit Discount Factor is contingent upon the sum of the reported acres which were not prevented from planting for all applicable units being Greater Than the Area Low Quantity and less than Area High Quantity fields contained on the ADM Unit Discount, "A01090".
When Commodity Code is EQUAL to Wheat, "0011", Cotton, "0021", Corn, "0041", or Soybeans, "0081".							
Total Liability Amount =	$\sum$ Premium Liability Amount for all records within the Insured unit for the Commodity	Total Liability Amount	Internal		9999999999	Round to whole	
		Premium Liability Amount	Internal		9999999999	None	
Proportion Liability Type Amount =	$\sum$ Premium Liability Amount by Type within the Insured Unit / Total Liability Amount	Proportion Liability Type Amount	Internal		999999.99999999	Round to 8 decimals.	
Proportion Liability Practice Amount =	$\sum$ Premium Liability Amount by Practice within the Insured Unit / Total Liability Amount	Proportion Liability Practice Amount	Internal		999999.99999999	Round to 8 decimals.	

	Exhibit Name:	Premium Calculation		
	Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2011
	Record Name:	Acreage	Version:	DRAFT
	Record Code:	P11	Release Date:	9/30/2010

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Proportion Liability Unit Amount $= \sum$ Premium Liability Amount by Record / Total Liability Amount	Proportion Liability Unit Amount	Internal		999999.99999999	Round to 8 decimals.	
Average Raw Rate $= \sum_{i=1}^{\text{number of units}} \text{Round}((\text{Reference Rate}_i + \text{Fixed Rate}_i) * \text{Proportion Liability Unit Amount}_i, 8)$	Average Raw Rate	Internal		99999999.9999999	Round to 8	
	Reference Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
	Fixed Rate	ADM		9.9999	None	Edit with ADM Base Rate, "A01010".
Average Base Rate $= \sum_{i=1}^{\text{number of units}} \text{Round}((\text{Base Rate}_i) * \text{Proportion Liability Unit Amount}_i, 8)$	Average Base Rate	Internal		99999999.9999999	Round to 8	
	Base Rate	ADM		99999999.9999999	None	Edit with ADM Combo Revenue Factor, "A01030".
Average Base Premium Rate $= \sum_{i=1}^{\text{number of units}} \text{Round}((\text{Base Premium Rate}_i) * \text{Proportion Liability Unit Amount}_i, 8)$	Average Base Premium Rate	Internal		99999999.9999999	Round to 8 decimals.	
	Base Premium Rate	P11	91	999999.99999999	None	

	Exhibit Name:	Premium Calculation		
	Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2011
	Record Name:	Acreage	Version:	DRAFT
	Record Code:	P11	Release Date:	9/30/2010

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
	Predicted Value Quantity	Internal		999999.99999999	Round to 8	
Predicted Value Quantity = Intercept Coefficient + Total Reported Acreage * Total Unit Size Coefficient + Average Raw Rate * Average County Base Rate Coefficient + $\sum$ Proportion Liability Type Amount$_i$ * Type Coefficient$_i$ + $\sum$ Proportion Liability Practice Amount$_i \cdot$ Practice Coefficient$_i$	Intercept Coefficient	ADM		S9.9999	None	Edit with ADM Unit Discount, "A01090". When pulling the Intercept Coefficient, Total Unit Size Coefficient, Average County Base Rate Coefficient, and Standard Deviation Quantity, the values should be the same for a given commodity and coverage level percent although they may have different Unit Id's. The reason for the different Unit Id's is to account for the Type Coefficients and Practice Coefficients which will vary by the type and practice in each unit and coverage level percent.
	Total Reported Acreage	ADM		9.9999999	None	Edit with ADM Unit Discount, "A01090". Total Reported Acreage refer to the sum of the Reported Acreage which were not prevented from Planting for the unit.
	Average Raw Rate * Average County Base Rate Coefficient	ADM		99.9999	None	Edit with ADM Unit Discount, "A01090".
	Proportion Liability Type * Type Coefficient	ADM		9.9999	None	Edit with ADM Unit Discount, "A01090".
	Proportion Liability Practice * Practice Coefficient	ADM		9.9999	None	Edit with ADM Unit Discount, "A01090".

		Exhibit Name:	Premium Calculation			
		Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2011	
		Record Name:	Acreage	Version:	DRAFT	
		Record Code:	P11	Release Date:	9/30/2010	

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

Calculations		Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Cumulative Distribution Function (CDF)	**IF (Predicted Value Quantity / Standard Deviation Quantity) < 0:** 0.39894228 * EXP(-(Predicted Value/ Standard Deviation Quantity)^2/2) x [0.31938153 * (1/ (1-0.2316419 * (Predicted Value Quantity/ Standard Deviation Quantity))) – 0.356563782 * (1/ (1-0.2316419 * (Predicted Value Quantity/ Standard Deviation Quantity)))^2 + 1.781477937 * (1/ (1-0.2316419 * (Predicted Value Quantity/ Standard Deviation Quantity)))^3 – 1.821255978 * (1/ (1-0.2316419 * (Predicted Value Quantity/ Standard Deviation Quantity)))^4 + 1.330274429 * (1/ (1-0.2316419 * (Predicted Value Quantity/ Standard Deviation Quantity)))^5]	CDF	Internal		999999.99999999	Round to 8 decimals.	
		Standard Deviation Quantity	ADM		999.999999999	None	Edit with ADM Unit Discount, "A01090".

	Exhibit Name:	Premium Calculation			
	Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2011	
	Record Name:	Acreage	Version:	DRAFT	
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Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

Calculations		Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Cumulative Distribution Function (CDF)	=	**IF (Predicted Value Quantity / Standard Deviation Quantity) ≥ 0:** $1 - 0.39894228 * EXP(-(\text{Predicted Value Quantity} / \text{Standard Deviation Quantity})^2/2)$ x $[0.31938153 * (1/ (1+0.2316419 * (\text{Predicted Value Quantity}/ \text{Standard Deviation Quantity}))) - 0.356563782 * (1/ (1+0.2316419 * (\text{Predicted Value Quantity}/ \text{Standard Deviation Quantity})))^2 + 1.781477937 * (1/ (1+0.2316419 * (\text{Predicted Value Quantity}/ \text{Standard Deviation Quantity})))^3 - 1.821255978 * (1/ (1+0.2316419 * (\text{Predicted Value Quantity}/ \text{Standard Deviation Quantity})))^4 + 1.330274429 * (1/ (1+0.2316419 * (\text{Predicted Value Quantity}/ \text{Standard Deviation Quantity})))^5]$	CDF	Internal		999999.99999999	Round to 8 decimals.	
			Standard Deviation Quantity	ADM		999.999999999	None	Edit with ADM Unit Discount, "A01090".
Probability Distribution Function (PDF)	=	$0.39894228 * EXP(-(\text{Predicted Value Quantity}/ \text{Standard Deviation Quantity})^2/2)$	PDF	Internal		999999.99999999	Round to 8 decimals.	
			Standard Deviation Quantity	ADM		999.999999999	None	Edit with ADM Unit Discount, "A01090".
Expected Normalized LCR Difference	=	Predicted Value Quantity * CDF + Standard Deviation Quantity * PDF	Expected Normalized LCR Difference	Internal		9999999999.99999999	Round to 8 decimals.	
			Standard Deviation Quantity	ADM		999.999999999	None	Edit with ADM Unit Discount, "A01090".
Yield Protection LCR Difference Quantity	=	Average Base Rate * Expected Normalized LCR Difference	Yield Protection LCR	Internal		999999.99999999	Round to 8 decimals.	
Unit Structure Discount Factor	=	MAX [0.60,(Average Base Premium Rate - Yield Protection LCR Difference Quantity) / Average Base Premium Rate]	Unit Structure Discount Factor	Internal		9.99999999	Round to 8 decimals.	

Exhibit Name: Premium Calculation					
Exhibit Number: P11-1, Plan 01, 02, 03		**Reinsurance Year:** 2011			
Record Name: Acreage		**Version:** DRAFT			
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Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

Calculations		Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Section 4: Optional Coverage							The Biotech Endorsement (BE) will be treatede as a normal option and it's rate will be applied in this section. In the legacy system the Biotech Endorsement was applied separately with it's own field premium discount factor. This will no longer be the case.
Additive Optional Rate Adjustment Factor $=$	**When Rate Method Code is Additive, "A":** $\sum$ Option Rate * Rate Differential Factor	Additive Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	
		Option Rate	ADM		99999.9999	None	Option Rate will be the Sum of all Option Rate with Rate Method Code equal to Additive, "A". Edit with ADM Option Rate, "A01060".
		Rate Differential Factor	ADM		9.99999999	None	Edit with ADM Coverage Level Differential, "A01040".
Multiplicative Optional Rate Adjustment Factor $=$	**When Rate Method Code is Multiplicative, "M":** $\sum$ Option Rate1 * Option Rate2 * Option Rate3...	Multiplicative Optional Rate Adjustment Factor	Internal		999999.9999	Round to 4 decimals.	
		Option Rate	ADM		9.9999	None	Edit with ADM Option Rate, "A01060".

Insurance Plan Code	01 Yield Protection	02 Revenue Protection		03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley	

Calculations	**Field Name**	**Record Number**	**d Nu**	**Field Format**	**Field Rounding**	**Rules**
Section 5: Revenue Coverage Add on Rates (Applicable only for Plans 02 and 03)						**It is recommended that other than hard coding for specific type and practice codes which will eventually change when the new key structure is adopted, that a condition be put in place that will set the add on rate to 0 when the Price Volatility is 0. This condition MUST occur at some point in order to circumvent the Calculation of Preliminary Revenue Protection Add on Rate and Preliminary Revenue Protection with Harvest Price Exclusion Add on Rate, which contains a constraint that the add on rate be at least 1% greater than the base Premium Rate.**
	Adjusted Mean Quantity (AdjMean)	Internal		999999.99999999	Round to 8 decimals.	
	Approved Yield (AY)	P11	47	99999999.99	None	
Adjusted Mean Quantity = Approved Yield * Mean Quantity / 100	Mean Quantity	ADM		999.999999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor, "A01030" for the Mean Quantity, When the Revenue Lookup Rate = Base Rate
	Adjusted Standard Deviation Quantity (AdjStndDev)	Internal		9999999999.99999999	Round to 8 decimals.	
	Approved Yield (AY)	P11	47	99999999.99	None	
Adjusted Standard Deviation Quantity = Approved Yield * Standard Deviation Quantity / 100	Standard Deviation Quantity	ADM		999.999999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor "A01030" for the Standard Deviation Quantity, When the Revenue Lookup Rate = Base Rate
LnVar = Ln((Price Volatility Factor)^2 + 1)	Log Variance Quantity (LnVar)	Internal		999999.99999999	Round to 8 decimals.	
	Price Volatility Factor	ADM		9.99		Edit with ADM Price, "A00810".
LnMean = Ln(Projected Price) – LnVar / 2	log Mean Quantity (LnMean)	Internal		999999.99999999	Round to 8 decimals.	
	Projected Price	ADM		99999.9999		Edit with ADM Price, "A00810".

Exhibit Name: Premium Calculation						
Exhibit Number: P11-1, Plan 01, 02, 03			**Reinsurance Year:** 2011			
Record Name: Acreage			**Version:** DRAFT			
Record Code: P11			**Release Date:** 9/30/2010			

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
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Calculations		Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Yield Draw Quantity$_{\text{Sequence Number}}$ =	**For Sequence Number 1 to 500** Yield Draw Quantity	Yield Draw Quantity	ADM		S99.999999999	None	Edit with ADM Beta, "A01020". Use the Beta ID field from ADM Insurance Offer, "A00030" and the Beta "A01020" to obtain the applicable draws. There should be 500 draws (or sequence numbers) per Beta Id for every distinct Beta Id in the Insurance Offer ADM, "A00030".
Price Draw Quanity$_{\text{Sequence Number}}$ =	**For Sequence Number 1 to 500** Price Draw Quantity	Price Draw Quantity	ADM		S99.999999999	None	Edit with ADM Beta, "A01020". Use the Beta ID field from ADM Insurance Offer, "A00030" and the Beta "A01020" to obtain the applicable draws. There should be 500 draws (or sequence numbers) per Beta Id for every distinct Beta Id in the Insurance Offer ADM
Simulated Yield Protection Losses Quantity = $\sum_{i=1}^{500} \text{MAX}(0, AY * covlvl - \text{MAX}(0, \text{Yield}_i *$ AdjStndDev + AdjMean))		Simulated Yield Protection Losses Quantity (SimYPLosses)	Internal		9999999999.99999999999	~~None~~ Round to 12 decimals.	
		Approved Yield (AY)	P11	47	99999999.99	None	
		Coverage Level Percent (covlvl)	P14	33	9.9999	None	
		Yield Draw Quantity$_i$ (Yield$_i$)	ADM		S99.999999999	None	

<table>
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<tr><td colspan="2" align="right">**Exhibit Number:**</td><td colspan="2">P11-1, Plan 01, 02, 03</td><td align="right">**Reinsurance Year:**</td><td>2011</td></tr>
<tr><td colspan="2" align="right">**Record Name:**</td><td colspan="2">Acreage</td><td align="right">**Version:**</td><td>DRAFT</td></tr>
<tr><td colspan="2" align="right">**Record Code:**</td><td colspan="2">P11</td><td align="right">**Release Date:**</td><td>9/30/2010</td></tr>
</table>

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

Calculations	**Field Name**	**Record Number**	**d Nu**	**Field Format**	**Field Rounding**	**Rules**
Simulated Revenue Protection Losses Quantity = $\sum_{i=1}^{500} MAX(0, AY * covlvl * MAX(ProjPrice, MIN(2 * ProjPrice, e^{(Price_i * vLnVar + LnMean)})) - (MAX(0, Yield_i * AdjStdDev + AdjMean) * MIN(2 * ProjPrice, e^{(Price_i * vLnVar + LnMean)})))$	Simulated Revenue Protection Losses Quantity(SimRPLosses)	Internal		9999999999.99999999999	~~None~~ Round to 12 decimals.	
	Approved Yield (AY)	P11	47	99999999.99	None	
	Coverage Level Percent (covlvl)	P14	33	9.9999	None	
	Yield Draw Quantity$_i$ (Yield$_i$)	ADM		S99.999999999	None	
	Projected Priced (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810".
Simulated Revenue Protection with Harvest Price Exclusion Losses Quantity = $\sum_{i=1}^{500} MAX(0, AY * covlvl * ProjPrice - (MAX(0, Yield_i * AdjStdDev + AdjMean) * MIN(2 * ProjPrice, e^{(price_i * vLnVar + LnMean)})))$	Simulated Revenue Protection with Harvest Price Exclusion Losses Quantity (SimRPhpeLosses)	Internal		9999999999.99999999999	~~None~~ Round to 12 decimals.	
	Approved Yield (AY)	P11	47	99999999.99	None	
	Coverage Level Percent (covlvl)	P14	33	9.9999	None	
Simulated Yield Protection Base Premium Rate = (Simulated Yield Protection Losses Quantity / 500) / (Approved Yield * Coverage Level Percent)	Simulated Yield Protection Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	
Simulated Revenue Protection Base Premium Rate = (Simulated Revenue Protection Losses / 500) / (Approved Yield * Coverage Level Percent * Projected Price)	Simulated Revenue Protection Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	
Simulated Revenue Protection with Harvest Price Exclusion Base Premium Rate = (Simulated Revenue Protection with harvest Price Exclusion Losses Quantity / 500) / (Approved Yield * Coverage level Percent * Projected Price)	Simulated Revenue Protection with Harvest Price Exclusion Base Premium Rate	Internal		999999.99999999	Round to 8 decimals.	
Preliminary Revenue Protection Premium Add on Rate = MAX(Simulated Revenue Protection Base Premium Rate - Simulated Yield Protection Base Premium Rate, 0.01 * Base Premium Rate)	Preliminary Revenue Protection Premium Add on Rate	Internal		999999.99999999	Round to 8 decimals.	This is a control meant to ensure that the premium rate associated with Revenue Protection is at least 1% greater than the basic Base Premium Rate where the Price Volatility Factor is NOT EQUAL to 0.

		Exhibit Name:	Premium Calculation				
		Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2011		
		Record Name:	Acreage	Version:	DRAFT		
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Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

Calculations		Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Preliminary Revenue Protection with Harvest Price Exclusion Add on Rate	= MAX(Simulated Revenue Protection with Harvest Price Exclusion Base Premium Rate - Simulated Yield Protection Base Premium Rate, -0.5 * Base Premium Rate)	Preliminary Revenue Protection with Harvest Price Exclusion Add on Rate	Internal		999999.99999999	Round to 8 decimals.	This is a control meant to ensure that the premium rate associated with Revenue Protection with Harvest Price Exclusion will not be less than half of the Base Premium Rate where the Price Volatility Factor is NOT EQUAL to 0.
Section 6: Historical Revenue Capping (Applicable only for Plans 02 and 03)							**This section is for calculation the 2010 Revenue Assurance Optional Unit Level Base Premium Rate for coverage level percents 65 thru 85 where applicable. Then it is used in conjunction with the Base Premium Rate and Revenue Add On Rates to compute capped Revenue Add On Rates. This table is set up such that the only value that will change from year to year is the Commodity Year. By doing this we are fixing a point where the premium calculation method was changed and applying an exponential capping over time.** **If there is NOT a corresponding row in the Historical Revenue Capping ADM, "A01110", then this calculation does not need to be performed. Furthermore, since coverage level percents 50, 55, 60 did not exist for Revenue Assurance (RA) historically capping does not need to be performed for those coverage level percents as well.**
Capping Yield Ratio = Rate Yield / Capping Reference Yield		Capping Yield Ratio	Internal		9.99	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.
		Rate Yield	P15	38	99999999.99	None	
		Capping Reference Yield	ADM		99999.99	None	Edit with ADM Historical Revenue Capping, "A01110".
Prior Capping Yield Ratio = Rate Yield / Prior Capping Reference Yield		Prior Capping Yield Ratio	Internal		9.99	Round to 2 decimals.	Cup at 0.50 and Cap at 1.50.
		Rate Yield	P15	38	99999999.99	None	
		Prior Capping Reference Yield	ADM		99999.99	None	Edit with ADM Historical Revenue Capping, "A01110".

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
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Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Capping Rate Multiplier = Capping Yield Ratio $^\wedge$ Capping Exponent Value	Capping Rate Multiplier	Internal		999999.99999999	Round to 8 decimals.	
	Capping Exponent Value	ADM		S99.999	None	Edit with ADM Historical Revenue Capping, "A01110".
Prior Capping Rate Multiplier = Prior Capping Yield Ratio $^\wedge$ Prior Capping Exponent Value	Prior Capping Rate Multiplier	Internal		999999.99999999	Round to 8 decimals.	
	Prior Capping Exponent Value	ADM		S99.999	None	Edit with ADM Historical Revenue Capping, "A01110".
Historical Capping Base Rate = **If Rate Method Code = Fixed, "F":** Sub County Rate	Historical Capping Base Rate	Internal		999999.99999999	Round to 8 decimals.	
If Rate Method Code = Additive, "A": Sub County Rate + (Capping Rate Multiplier * Capping Reference Rate + Capping Fixed Rate)	Sub County Rate	ADM		9.9999	None	Edit with ADM Sub County Rate, "A01050".
If Rate Method Code = Multiplicative, "M": Sub County Rate * (Capping Rate Multiplier * Capping Reference Rate + Capping Fixed Rate)	Capping Reference Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".
Otherwise: (Capping Rate Multiplier * Capping Reference Rate + Capping Fixed Rate)	Capping Fixed Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".

Exhibit Name: Premium Calculation						
Exhibit Number: P11-1, Plan 01, 02, 03			**Reinsurance Year:** 2011			
Record Name: Acreage			**Version:** DRAFT			
Record Code: P11			**Release Date:** 9/30/2010			

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

	Calculations	**Field Name**	**Record Number**	**d Nu**	**Field Format**	**Field Rounding**	**Rules**
Historical Prior Capping Base Rate =	**If Rate Method Code = Fixed "F":** Sub County Rate	Historical Prior Capping Base Rate	Internal		999999.99999999	Round to 8 decimals.	
	If Rate Method Code = Additive, "A": Sub County Rate + (Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate)	Sub County Rate	ADM		9.9999	None	Edit with ADM Sub County Rate, "A01050".
	If Rate Method Code = Multiplicative, "M": Sub County Rate * (Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate)	Prior Capping Reference Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".
	Otherwise: (Prior Capping Rate Multiplier * Prior Capping Reference Rate + Prior Capping Fixed Rate)	Prior Capping Fixed Rate	ADM		9.9999		Edit with ADM Historical Revenue Capping, "A01110".
Historical Basic Unit Base Rate =	.9 * MIN(.999, Historical Prior Capping Base Rate * 1.2, Historical Capping Base Rate)	Historical Basic Unit Base Rate	Internal		999999.99999999	Round to 8 decimals.	

	Exhibit Name:	Premium Calculation		
	Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2011
	Record Name:	Acreage	Version:	DRAFT
	Record Code:	P11	Release Date:	9/30/2010

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Historical Revenue Protection Base Premium = Rate	[beta0 Factor + Beta 1 Factor * Historical Basic Unit Base Rate + Beta 2 Factor * Historical Basic Unit Base Rate ^2 + Beta 3 Factor * Coverage Level Percent + Beta 4 Factor * Coverage Level Percent ^2 + Beta 5 Factor * Approved Yield / Capping Reference Yield + Beta 6 Factor * (Approved Yield / Capping Reference Yield)^2 + Beta 7 Factor * Price Volatility Factor + Beta 8 Factor * Price Volatility Factor^2 + Beta 9 Factor * Historical Basic Unit Base Rate * Coverage Level Percent + Beta 10 Factor * Historical Basic Unit Base Rate * Approved Yield / Capping Reference Yield + Beta 11 Factor * Historical Basic Unit Base Rate * Price Volatility Factor + Beta 12 Factor * Coverage Level Percent * Approved Yield / Capping Reference Yield + Beta 13 Factor * Coverage Level Percent * Price Volatility Factor + Beta 14 Factor * (Approved Yield / Capping Reference Yield) * Price Volatility Factor] * Unit Residual Factor X 1.1	Historical Revenue Protection Base Premium Rate	Internal		9999999999.99999999	Round each intermittent Beta * calculation to 8 decimals as it has been done historically.	
		Beta 0 Factor - Beta 14 Factor	ADM		S99.999999999	None	Edit with ADM Historical Revenue Capping, "A01110".
		Price Volatility Factor	ADM		9.99	None	Edit with ADM Price, "A00810".

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	Record Code:	P11	Release Date:	9/30/2010	

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
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Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Historical Revenue Protection with Harvest Price Exclusion Base Premium Rate = [beta0 Factor + Beta 1 Factor * Historical Basic Unit Base Rate + Beta 2 Factor * Historical Basic Unit Base Rate ^2 + Beta 3 Factor * Coverage Level Percent + Beta 4 Factor * Coverage Level Percent ^2 + Beta 5 Factor * Approved Yield / Capping Reference Yield + Beta 6 Factor * (Approved Yield / Capping Reference Yield)^2 + Beta 7 Factor * Price Volatility Factor + Beta 8 Factor * Price Volatility Factor^2 + Beta 9 Factor * Historical Basic Unit Base Rate * Coverage Level Percent + Beta 10 Factor * Historical Basic Unit Base Rate * Approved Yield / Capping Reference Yield + Beta 11 Factor * Historical Basic Unit Base Rate * Price Volatility Factor + Beta 12 Factor * Coverage Level Percent * Approved Yield / Capping Reference Yield + Beta 13 Factor * Coverage Level Percent * Price Volatility Factor + Beta 14 Factor * (Approved Yield / Capping Reference Yield) * Price Volatility Factor] * Unit Residual Factor X 1.1	Historical Revenue Protection with Harvest Price Exclusion Base Premium Rate	Internal		9999999999.99999999	Round each intermittent Beta * calculation to 8 decimals as it has been done historically.	
	Beta 0 Factor - Beta 14 Factor	ADM		S99.999999999	None	Edit with ADM Historical Revenue Capping, "A01110".
	Price Volatility Factor	ADM		9.99	None	Edit with ADM Price, "A00810".

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
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Calculations		Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Capped Revenue Protection Add on Rate =	MIN(Base Premium Rate + Preliminary Revenue Protection Add On Rate, Historical Revenue Protection Base Premium Rate * 1.2^(Commodity Year - Capping Year)) - Base Premium Rate	Capped Revenue Protection Add on Rate	Internal		9999999999.99999999	Round to 8 decimals.	Use the Preliminary Add On Rates for Insurance Plan Code Revenue Protection, "02" or Revenue Protection with Harvest Price Exclusion, "03" from section 5, the Base Premium Rate from section 2 to calculate the Capped Revenue add on factors.
		Base Premium Rate	P11	91	999999.99999999	None	
		Commodity Year	P14	10	CCYY	None	
		Capping Year	ADM		CCYY	None	Edit with ADM Historical Revenue Capping, "A01110".
Capped Revenue Protection with Harvest Price Exclusion Add on Rate =	MIN(Base Premium Rate + Preliminary Revenue Protection with Harvest Price Exclusion Add On Rate, Historical Revenue Protection with Harvest Price Exclusion Base Premium Rate * 1.2^(Commodity Year - Capping Year)) - Base Premium Rate	Capped Revenue Protection with Harvest Price Exclusion Add on Rate	Internal		9999999999.99999999	Round to 8 decimal	Use the Preliminary Add On Rates for Insurance Plan Code Revenue Protection, "02" or Revenue Protection with Harvest Price Exclusion, "03" from section 5, the Base Premium Rate from section 2 to calculate the Capped Revenue add on factors.
		Base Premium Rate	P11	91	999999.99999999	None	
		Commodity Year	P14	10	CCYY	None	
		Capping Year	ADM		CCYY	None	Edit with ADM Historical Revenue Capping, "A01110".
Section 7: Whole Farm Unit Base Premium Rate							**The Whole Farm Unit Discount is only applicable to the Revenue Protection and Revenue Protection with Harvest Price Exclusion Insurance Plans, unless the Special Provisions allow Whole Farm Units for other Insurance Plans.** **Whole Farm Units will now mandate that producers include both their spring and fall planted commodities into the whole farm unit for commodity/plans offering Whole Farm Units.** **Malting Barley Coverage is NOT applicable for Whole Farm Unit. Malting Barley Coverage is provided as a separate Basic Unit.**

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Calculations	**Field Name**	**Record Number**	**d Nu**	**Field Format**	**Field Rounding**	**Rules**
Mean Quantity $_{commodityj}$ = Mean Quantity $_{commodityj}$ WHERE Revenue Lookup Rate $_{commodityj}$ = Base Rate $_{commodityj}$	Mean Quantity $_{commodityj}$	ADM		999.999999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor, "A01030" for the Mean Quantity, When the Revenue Lookup Rate = Base Rate
	Revenue Lookup Rate $_{commodityj}$	Internal		9.9999	None	
	Base Rate $_{commodityj}$	ADM		9.9999	None	Edit with ADM Combo Revenue Factor, "A01030".
Standard Deviation Quantity $_{commodityj}$ = Standard Deviation Quantity $_{commodityj}$ WHERE Revenue Lookup Rate $_{commodityj}$ = Base Rate $_{commodityj}$	Standard Deviation Quantity $_{commodityj}$	ADM		999.999999999	None	Edit with ADM Combo Revenue Factor, "A01030". Search the Combo Revenue Factor, "A01030" for the Standard Deviation Quantity, When the Revenue Lookup Rate = Base Rate
	Revenue Lookup Rate $_{commodityj}$	Internal		9.9999	None	
	Base Rate $_{commodityj}$	ADM		9.9999	None	Edit with ADM Combo Revenue Factor, "A01030".
Adjusted Mean Quantity $_{commodityj}$ = Approved Yield $_{commodityj}$ * Mean Quantity $_{commodityj}$ / 100	Adjusted Mean Quantity $_{commodityj}$	Internal		999999.999999999	Round to 8 decimals.	
	Approved Yield $_{commodityj}$	P11	47	99999999.99	None	
Adjusted Standard Deviation Quantity $_{commodityj}$ = Approved Yield $_{commodityj}$ * Standard Deviation Quantity $_{commodityj}$ / 100	Adjusted Standard Deviation Quantity $_{commodityj}$	Internal		9999999999.99999999	Round to 8 decimals.	
	Approved Yield $_{commodityj}$	P11	47	99999999.99	None	
LnVariance $_{commodityj}$ = ln((Price Volatility Factor$_{commodityj}$)^2 + 1)	Log Variance commodityj (LnVar)	Internal		999999.99999999	Round to 8 decimals.	
	Price Volatility Factor$_{commodityj}$	ADM		9.99	None	Edit with ADM Price, "A00810".

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Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
$\text{LnMean}_{commodityj} = \ln(\text{Projected Price}_{commodityj}) - \text{LnVariance}_{commodityj} / 2$	log Mean$_{commodityj}$ (LnMean)	Internal		999999.99999999	Round to 8 decimals.	
	Projected Price$_{commodityj}$	ADM		99999.9999		Edit with ADM Price, "A00810".
Yield Draw Quantity$_{commodityj}$ Sequence Number $=$ Yield Draw Quantity$_{commodity}$	Yield Draw Quantity	ADM		S99.999999999	None	ADM Insurance Offer, "A00030", and Beta, "A01020", should be used to obtain the applicable draws. There should be 500 Draws (or sequence numbers) per Beta Id in the ADM Beta, "A01020" for every distinct Beta Id in the ADM Insurance Offer, "A00030".
Price Draw Quantity$_{commodityj}$ Sequence Number $=$ Price Draw Quantity$_{commodity}$	Price Draw Quantity	ADM		S99.999999999	None	ADM Insurance Offer, "A00030", and Beta, "A01020", should be used to obtain the applicable draws. There should be 500 Draws (or sequence numbers) per Beta Id in the ADM Beta, "A01020" for every distinct Beta Id in the ADM Insurance Offer, "A00030".

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Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
	Simulated Revenue Protection Losses Whole Farm (SimRPLossesWF)	Internal		9999999999.99999999999	~~None~~ Round to 12 decimals.	Simulated Revenue Protection Losses for All Commodity/Acreage report line in the Whole Farm Unit.
	Coverage Level Percent (covlvl)	P14	33	9.9999	None	
	Approved Yield$_{commodityj}$ (AY)	P11	47	99999999.99	None	Approved Yield for each Commodity/Acreage report line in the Whole Farm Unit.
Simulated Revenue Protection Losses Whole Farm $= \sum\limits_{i=1}^{500} MAX(0, covlvl * (\sum\limits_{j=}^{all\ Commodities} Ay_{commodityj} * Acres_{commodityj} * MAX(ProjPrice_{commodityj}, MIN(2 * ProjPrice_{commodityj}, e^{(Price_{commodityji} * \sqrt{LnVar_{commodityj}} + LnMean_{commodityj})}))) - MAX(0, (Yield_{commodityji} * AdjStdDev_{commodityj} + AdjMean_{commodityj})) * MIN(2 * ProjPrice_{commodityj}, e^{(price_{commodityji} * \sqrt{LnVar_{commodityj}} + LnMean_{commodityj})}) * (Acres_{commodityj}))$	Reported Acreage$_{commodityj}$ (Acres)	P11	52	999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage. Reported Acreage for each Commodity/Acreage report line in the Whole Farm Unit.
	Projected Price$_{commodityj}$ (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Projected Price for each Commodity/Acreage report line in the Whole Farm Unit.
	Price Draw Quanity$_{commodityj}$i (Price)	ADM		S99.999999999	None	Price Draw Quantity for each Commodity /Acreage report line in the Whole Farm Unit.
	Log Variance$_{commodityj}$ (LnVar)	Internal		999999.99999999	None	Log Variance for each Commodity/Acreage report line in the Whole Farm Unit.
	log Mean$_{commodityj}$ (LnMean)	Internal		999999.99999999	None	Log Mean for each Commodity/Acreage report line in the Whole Farm Unit.
	Yield Draw Quantity$_{commodityj}$i (Yield)	ADM		S99.999999999	None	Yield Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
	Adjusted Standard Deviation Quantity$_{commodityj}$ (AdjStnDev)	Internal		9999999999.99999999	None	Adjusted Standard Deviation Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
	Adjusted Mean Quantity$_{commodityj}$ (AdjMean)	Internal		999999.999999999	None	Adjusted Mean Quantity for each Commodity/Acreage report line in the Whole Farm Unit.

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Exhibit Number: P11-1, Plan 01, 02, 03	**Reinsurance Year:** 2011
Record Name: Acreage	**Version:** DRAFT
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Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
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Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
	Simulated Revenue Protection Harvest Price Excluded Losses Whole Farm (SimRPhpeLossesWF)	Internal		9999999999.99999999999	~~None~~ Round to 12 decimals.	Simulated Revenue Protection Harvest Price Excluded Losses for All Commodity/Acreage report lines in the Whole Farm Unit.
	Coverage Level Percent (covlvl)	P14	33	9.9999	None	
	Approved Yield$_{commodityj}$ (AY)	P11	47	99999999.99	None	Approved Yield for each Commodity/Acreage report line in the Whole Farm Unit.
Simulated Revenue Protection Harvest Price Excluded Losses Whole Farm $=$ $$\sum_{\substack{i=1}}^{500} \text{MAX}\left(0, covlvl * \sum_{j=}^{\text{all commodities}} (AY_{commodityj} * ProjPrice_{commodityj} * Acres_{commodityj}) - \text{MAX}(0, (Yield_{commodityji} * AdjStdDev_{commodityj} + AdjMean_{commodityj})) * \text{MIN}(2 * ProjPrice_{commodityj}, e^{(price_{commodityji} * \sqrt{LnVar_{commodityj}} = LnMean_{commodityj})}) * (Acres_{commodityj})\right)$$	Reported Acreage$_{commodityj}$ (Acres)	P11	52	999999.99	None	Reported Acreage must equal the sum of all Land, P27, Reported Acreage. Reported Acreage for each Commodity/Acreage report line in the Whole Farm Unit.
	Projected Price$_{commodityj}$ (ProjPrice)	ADM		99999.9999	None	Edit with ADM Price, "A00810". Projected Price for each Commodity/Acreage report line in the Whole Farm Unit.
	Yield Draw Quantity$_{commodityj}{}^{i}$ (Yield)	ADM		S99.999999999	None	Yield Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
	Adjusted Standard Deviation Quantity$_{commodityj}$ (AdjStnDev)	Internal		9999999999.99999999	None	Adjusted Standard Deviation Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
	Adjusted Mean Quantity$_{commodityj}$ (AdjMean)	Internal		999999.999999999	None	Adjusted Mean Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
	Price Draw Quanity$_{commodityj}{}^{i}$ (Price)	ADM		S99.999999999	None	Price Draw Quantity for each Commodity/Acreage report line in the Whole Farm Unit.
	Log Variance$_{commodityj}$ (LnVar)	Internal		999999.99999999	None	Log Variance for each Commodity/Acreage report line in the Whole Farm Unit.
	log Mean$_{commodityj}$ (LnMean)	Internal		999999.99999999	None	Log Mean for each Commodity/Acreage report line in the Whole Farm Unit.

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Exhibit Number: P11-1, Plan 01, 02, 03			**Reinsurance Year:** 2011		
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Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
$$\text{Revenue Protection Whole Farm Rate} = \frac{\dfrac{\text{SimRPLossesWF}}{500}}{\text{covlvl} * \sum_{j=}^{\text{all commodities}}(AY_{commodityj} * ProjPrice_{commodityj} * Acres_{commodityj})}$$	Revenue Protection Whole Farm Rate	Internal		9999999999.99999999	None	
$$\text{Revenue Protection with Harvest Price Exclusion Whole Farm Rate} = \frac{\dfrac{\text{SimRPhpeLossesWF}}{500}}{\text{covlvl} * \sum_{j=}^{\text{all commodities}}(AY_{commodityj} * ProjPrice_{commodityj} * Acres_{commodityj})}$$	Revenue Protection with Harvest Price Exclusion Whole Farm Rate	Internal		9999999999.99999999	None	
When Insurance Plan Code equals Revenue Protection, "02": Whole Farm Base Premium Rate = Revenue Protection Whole Farm Rate	Whole Farm Base Premium Rate	Internal		9999999999.99999999	None	
When Insurance Plan Code equals Revenue Protection with Harvest Price Exclusion, "03": Whole Farm Base Premium Rate = Revenue Protection with Harvest Price Exclusion Whole Farm Rate	Whole Farm Base Premium Rate	Internal		9999999999.99999999	None	

	Exhibit Name:	Premium Calculation		
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Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Section 8: Premium Rate						**The Premium Rate for ALL Unit Structures should be capped at .999 in the event various adjustments to the Base Premium Rate would cause it to exceed 1.0.**
When Unit Structure Code equals Whole Farm Unit, "WU": Premium Rate = MIN(.999, Whole Farm Base Premium Rate * Multiplicative Optional Rate Adjustment Factor + Additive Optional Rate Adjustment Factor	Premium Rate	Internal		9999999999.99999999	Round to 8 decimals.	For situations where the option factors vary by Commodity, a reported Acreage weighted average of the Option Factors should be used to determine the Multiplicative and Additive Optional Rate adjustments to be used in the computation of the Premium Rate for Whole Farm Unit.
When Unit Structure Code DOES NOT EQUAL Whole Farm Unit, "WU": Premium Rate = MIN(.999, Base Premium Rate * Unit Discount Factor * Multiplicative Optional Rate Adjustment Factor+ Additive Optional Rate Factor + Capped Revenue Add On Factor)	Premium Rate	Internal		9999999999.99999999	Round to 8 decimals.	
Section 9: Total Premium Amount, Subsidy Amount, and Producer Premium Amount						
Preliminary Total Premium = Premium Liability Amount * Premium Rate * Experience Factor * Premium Surcharge Factor	Preliminary Total Premium	Internal		9999999999	Round to whole number.	
	Experience Factor	P11	52	9.999	None	Experience Factor is only applicable for Insurance Plan Code Yield Protection, "01".
	Premium Surcharge Factor					Use when the Approved Yield Had a Cup or Surcharge applied.
Total Premium Amount = Preliminary Total Premium * Multiple Commodity Adjustment Factor	Total Premium Amount	P11	89	9999999999	Round to whole number.	
	Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063". Used when there is a first Commodity Loss.
Subsidy Amount = Total Premium Amount * Subsidy Percent	Subsidy Amount	P11	87	9999999999	Round to whole number.	
	Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".
Producer Premium Amount = Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	90	9999999999	Round to whole number.	

	Exhibit Name:	Premium Calculation			
	Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2011	
	Record Name:	Acreage	Version:	DRAFT	
	Record Code:	P11	Release Date:	9/30/2010	

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Section 10: Malting Barley Options MA & MB						If either the Malting Barley Option A or Malting Barley option B is chosen, a new record(s) will need to be prepared for this endorsement. These record should meet the following criteria: 1) The acreage records for the MA or MB records should be less than or equal to the acreage of the base offer 2) The Base Offer will not have the MA/MB option returned in the option field 3) The Acreage records with the MA or MB option will have the MA or MB option indicated in the option Field.
						Malting Barley Option A Requirements: To qualify for this option, the producer must: 1) Provide acceptable Malting Barley sales records for at least the 4 most recent Commodity Years and the number of acres planted to malting varieties. 2) If produced under a contract or price agreement, a copy of the current contract or price agreement must be provided on or before the acreage reporting date if the additional value price from the contract/price agreement is to be used for determining liability.
						Malting Barley Option B Requirements: To qualify for this option, the producer must: 1) Have planted Malting Barley for at least one of the three Commodity Years directly preceding the previous Commodity Year 2) Sold at least 75% of the contracted amount for the Commodity Year such contract was applicable 3) Provide a copy of the prior contract and acceptable records of sales.

Exhibit Name: Premium Calculation						
Exhibit Number: P11-1, Plan 01, 02, 03			**Reinsurance Year:** 2011			
Record Name: Acreage			**Version:** DRAFT			
Record Code: P11			**Release Date:** 9/30/2010			

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Approved Yield =	Approved Yield calculated in accordance with the Basic Provisions OR ∑(Number of Bushels / Reported Acreage) / ∑ number of years	Approved Yield	P11	48	999999999.99		According to the Malting Barley Price and Quality Endorsement, the Approved Yield can be based on either the procedures established in the Basic Provisions, or by averaging the yields required to meet the qualifications for Option A.
Premium Guarantee Per Acre Amount =	Approved Yield * Coverage Level Percent	Premium Guarantee Per Acre Amount	Internal		999999999.99	If Unit of Measure equals Pounds "LBS", then round to whole number. If Unit of Measure equals Tons "TONS", then round to 2 decimals. Otherwise, round to 1 decimal.	
		Approved Yield	P11	47	99999999.99	None	
		Coverage Level Percent	P14	33	9.9999	None	

		Exhibit Name:	Premium Calculation		
		Exhibit Number:	P11-1, Plan 01, 02, 03	Reinsurance Year:	2011
		Record Name:	Acreage	Version:	DRAFT
		Record Code:	P11	Release Date:	9/30/2010

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Price Election Amount **=** Additional Value Price	Price Election Amount	Internal		9999.9999	None	Price Election Amount will be set equal to the Additional Value Price. The Additional Value price is the difference between the contract price and regular Barley's Projected Price or the additional value price provided in the ADM if the contract price is not used. 1) The Contract Price: a) The sale price per bushel established in the contract or price agreement less the projected price for Barley. b) The amount per bushel (not including discounts or incentives) above the feed barley price that is determined at a later date, provided the method of determining the price is specified in the contract or price agreement. c) If the contract or price agreement has a variable price option, the price OR the method of determining a price that will be treated as the sale price. 2) The additional Value price indicated in the actuarial documents: a) if there is no malting barley contract. b) The contract or price agreement was not provided by the acreage reporting date. 3) The additional Value price: a) For Option A **WILL NOT EXCEED $1.25**. b) For Option B **WILL NOT EXCEED $2.00**.

Exhibit Name:	Premium Calculation			
Exhibit Number:	P11-1, Plan 01, 02, 03	**Reinsurance Year:**	2011	
Record Name:	Acreage	**Version:**	DRAFT	
Record Code:	P11	**Release Date:**	9/30/2010	

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Reported Acreage (Record 1) = MIN(Total Reported Acreage, Malting Barley Contract 1 Bushels / Approved Yield) Reported Acreage (Record 2) = MIN(Total Reported Acreage - Reported Acreage for Record 1, Malting Barley Contract 2 Bushels / Approved Yield) Reported Acreage (Record X) = MIN(Total Reported Acreage - $\sum_{i=1}^{x-1}$ Malting Barley Contract I, malting Barley Contract X)	Reported Acreage	Internal			None	There may need to be multiple record is there are multiple contracts and/or there are more acres insured to yield more bushels than the contract(s) call for. Acreage in excess of contracted acreage will be insured at the additional value price on the actuarial documents. If there is not enough reported acres to support all of the contracts, Insurance will be limited to what the total reported acreage will support.
Premium Guarantee Per Acre Amount = Approved Yield * Coverage Level Percent	Premium Guarantee Per Acre Amount	Internal		999999999.99	If Unit of Measure equals Pounds "LBS", then round to whole number. If Unit of Measure equals Tons "TONS", then round to 2 decimals. Otherwise, round to 1 decimals.	Determine the Premium Guarantee Per Acre Amount and the Guarantee Per Acre Amount for each record.

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
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Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
If Late Planting applies:						
Guarantee Per Acre Amount = Premium Guarantee Per Acre Amount * Guarantee Adjustment Factor	Guarantee Per Acre Amount	Internal		999999999.99	If Unit of Measure equals Pounds "LBS", then round to whole number. If Unit of Measure equals Tons "TONS", then round to 2 decimals. Otherwise, round to 1 decimals.	Prevented Planting does not apply to Malting Barley Option A or Malting Barley Option B records.
Premium Total Guarantee Amount = Premium Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Premium Total Guarantee Amount	Internal		99999999.99	Round to 2 decimals.	
Total Guarantee Amount = Guarantee Per Acre Amount * Price Election Amount * Reported Acreage	Total Guarantee Amount	P11	97	99999999.99	Round to 2 decimals.	
Premium Liability Amount = Premium Total Guarantee Amount * Insured Share Percent	Premium Liability Amount	Internal		9999999999	Round to whole number.	
Liability Amount = Total Guarantee Amount * Insured Share Percent	Liability Amount	P11	88	9999999999	Round to whole number.	

Exhibit Name: Premium Calculation		
Exhibit Number: P11-1, Plan 01, 02, 03	**Reinsurance Year:** 2011	
Record Name: Acreage	**Version:** DRAFT	
Record Code: P11	**Release Date:** 9/30/2010	

Insurance Plan Code	01 Yield Protection	02 Revenue Protection	03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley

Calculations	Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Premium Rate = MIN(.999, Base Premium Rate * Unit Discount Factor * Multiplicative Optional Rate Adjustment Factor+ Additive Optional Rate Factor)	Premium Rate	Internal		9999999999.99999999	Round to 8 decimals.	To Determine the Premium Rate for the Malting Barley Option Records: 1) Use the Rate Yield as determined under normal procedures. 2) Process the Rate Yield through section 2 of these procedures as if it was a normal Yield Protection Plan of Insurance using the rating components for the regular Barley offer. 3) Find the Basic Unit Discount Factor to be applied later from section 3 of these procedures as if it was a normal Yield Protection Plan of Insurance 4) Find the applicable Malting Barley Option Factor to be applied later from section 4. This will be the only option factor applied to a Malting Barley record. 5) Sections 5, 6, 7 are not applicable for MA/MB records.
	Multiplicative Optional Rate Adjustment Factor	Internal		999999.9999		
	Additive Optional Rate Adjustment Factor	Internal		999999.9999		

Exhibit Name: Premium Calculation						
Exhibit Number: P11-1, Plan 01, 02, 03			**Reinsurance Year:** 2011			
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Insurance Plan Code	01 Yield Protection	02 Revenue Protection		03 Revenue Protection with Harvest Price Exclusion
Commodity Code	0011 Wheat 0015 Canola 0018 Rice	0021 Cotton 0041 Corn 0051 Grain Sorghum	0078 Sunflower 0081 Soybeans 0091 Barley	

Calculations		Field Name	Record Number	d Nu	Field Format	Field Rounding	Rules
Preliminary Total Premium =	Premium Liability Amount * Premium Rate * Experience Factor * Premium Surcharge Factor	Preliminary Total Premium	Internal		9999999999	Round to whole number.	
		Experience Factor	P11	52	9.999	None	Experience Factor is only applicable for Insurance Plan Code Yield Protection, "01".
		Premium Surcharge Factor					
Total Premium Amount =	Preliminary Total Premium * Multiple Commodity Adjustment Factor	Total Premium Amount	P11	89	9999999999	Round to whole number.	
		Multiple Commodity Adjustment Factor	ICE		9999.999	None	Edit with ICE Multiple Cropping, "D00063".
Subsidy Amount =	Total Premium Amount * Subsidy Percent	Subsidy Amount	P11	87	9999999999	Round to whole number.	
		Subsidy Percent	ADM		9.999	None	Edit with ADM Subsidy Percent, "A00070".
Producer Premium Amount =	Total Premium Amount - Subsidy Amount	Producer Premium Amount	P11	90	9999999999	Round to whole number.	